USSR

UDC 621.762.901

ABARBANEL'. Z. I., and KOVCHUR, S. G.

"Photometric Method for the Determination of the Specific Surface of Powders"

Tr. Vitebsk. tekhnol. in-ta legk. prom-sti [Works of the Vitebsk Technological Institute for Light Industry], 1, 1970, pp. 82-85, (Translated from Referativnyy Zhurnal-Metallurgiya, No. 1, 1971, Abstract No.1 G426 by I. Brokhin).

Translation: A method is developed for turbidimetric determination of the specific surface of polydispersed powders, based on the scattering of light passing through a homogeneously distributed powder material. The homogeneous state must be retained throughout the time of the measurement. This is achieved either by continuous intensive mixing of the system or by using a viscous liquid (such as glycerine) to eliminate sedimentation of particles. Equations are presented characterizing the attenuation of a parallel light beam passing through a turbid polydispersed medium and the transmission factor, which is measured by known photometric methods. The final equation for the specific surface σ is σ = k/ γ ln I $_0$ /I, where k is an instrument

2/2 025 UNCLASSIFIED

PROCESSING DATE -- 300C170

CIRC ACCESSION NO--APO124869

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. EQUATIONS WERE DEVELOPED FOR CALCG. THE AV. CONCN. OF EXCESS HOLES, DELTA BAR P. THE DISTRIBUTION WAS PLOTTED OF DELTA BAR P FOR DIFFERENT RATIOS OF THE RAVIOS, R, OF THE EXCITING SPOT AND THE DIFFUSION LENGTH. FROM THE PROPORTIONALITY OF THE ABSORPTION COEFF., K, AND THE CUNCN. OF CARRIER CHANGES, DELTA K EQUALS SIGMA DELTA BAR P, THE ABSORPTION OF NONEQUIL. CARRIER CHARGES WAS CALCD. FOR DIFFERENT PUSITIONS AND CONFIGURATIONS OF THE SPUT; SIGMA IS THE CROSS SECTION OF ABSURBED RADIATION. FOR DELTA KD IS SIMILAR TO 1, K SUBO D IS SIMILAR TO 1, WERE D IS THE THICKNESS OF THE ABSORBING LAYER AND K SUBG IS K FOR EQUIL. CHARGE CARRIERS, INIT—T SUBO) EQUALS MINUS SIGMA D DELTA BAR P AND FOR DELTA KD IS SIMILAR TO 1, K SUBO D SMALLER THAN 1, INIT—T SUBO) EQUALS INIT MINUS R PRIME2) MINUS SIGMA D DELTA BAR P, WHERE T SUBO AND I IS RADIATION PASSED UP TO AND AT EXCITATION, KESP. FACILITY: SARATOV. GOSUNIV. IM. CHERNYSHEVSKOGO, SARATOV, USSR.

1/2 025 UNCLASSIFIED PROCESSING DATE--30UCTYO
TITLE--ABSORPTION OF RADIATION BY LOCALLY EXCITED CHARGE CARRIERS -U-

AUTHOR-(03)-ABANSHIN, N.P., BILENKO, D.I., LODGAUZ, V.A.

COUNTRY OF INFO--USSR

SOURCE--17V. VYSSH. UCHEB. ZAVED., FIZ. 1970, 13(3), 133-5

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--ELECTRON HOLE: CARRIER DENSITY, PARTICLE DISTRIBUTION: ELECTROMAGNETIC WAVE ABSORPTION: EXCITED ELECTRON STATE: CALCULATION

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/1215

STEP NC---UR/0139/70/013/003/0133/0135

GIRG AGGESSIGN NO--APO124869

2/2 015 UNCLASSIFIED

PROCESSING DATE--13NOV70

CTRC ACCESSION NO--APO124575

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE AUTHOR ANALYSES AND

SCIENTIFICALLY SUBSTANTIATES THE NUMBER OF EMPLOYEES IN QUALITY

INSPECTION DEPARTMENT OF A MACHINE TOOL FACTORY AND THE LEVEL OF THE

INSPECTOR SKILL. THE FOLLOWING FACTORS ARE CONSIDERED: INFLUENCE OF

INSPECTOR SKILL. THE FOLLOWING FACTORS ARE CONSIDERED: INFLUENCE OF

THE RYTHM OF THE WORK PACE UPON THE QUALITY OF THE INSPECTION:
DEPENDANCE OF THE QUALITY OF ASSEMBLY INSPECTION ON THE NUMBER OF

QUALITY INSPECTION SERVICES, ETC.

PROCESSING DATE--13NOV70

UNCLASSIFIED TITLE--FINDING BEST VALUES FOR NUMBER AND SKILL OF QUALITY INSPECTION

PERSONNEL -U-

AUTHOR--ABANKIN, V.I.

COUNTRY OF INFO--USSR

SOURCE--STANDARTY I KACHESTVO, 1970, NR PP 35-40

DATE PUBLISHED ---- 70

SUBJECT AREAS--MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--QUALITY CONTROL, BIBLIOGRAPHY, MACHINERY MANUFACTURING PLANT, MACHINE TOOL

CONTROL MARKING--NU RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0914

STEP NO--UR/0422/70/000/006/0035/0040

CIRC ACCESSION NO--APO124575

UDC 669.26.048

YEVSTYUKHIN, A. I., ABANIN. D. D., KORNEYEV, V. A., MASLOV, V. P.

"Obtaining Alloys Based on Chromium by the Iodide Method"

V sb. Metallurgiya i metalloved. chist. met. (Metallurgy and Physical Metallurgy of Pure Metals -- collection of works), vyp. 9, Moscow, Atomizdat Press, 1971, pp 12-19 (from RZh--Metallurgiya, No 4, Apr 72, Abstract No 4G338)

Translation: In order to obtain iodide alloys of Cr with Y, V, and Ti, the charge was pressed and melted in an argon atmosphere in an arc furnace. Shavings which entered into the iodide process were prepared from the ingot obtained. Calculations were performed determining the possibility of deposition of Cr alloys with V, Ti, and V. Thermal dissociation was carried out by the Van Arkel scheme. In all the experiments the filament temperature was 1,000-1,100°, and the flask temperature was 750-800°. The precipitates obtained in the iodide process were remelted in an arc furnace and investigated. The Cr-V and Cr-Ti alloys in the analyzed concentration range are single-phase, but separations of a second phase are obvious in the microstructure of the Cr-Y alloy. On introduction of Y into the raw material, the effect of additional purification of the Cr is observed in the process of iodide refining. The iodide alloys of Cr with V and Ti were obtained, and the transfer coefficient was found as a function of the raw material composition.

- 55 -

Single Crystals

USSR

UDU 669.26-172

ABANIN, D. D., (DECEASED), YEBSTYUKHIN, A. I., HASLCY, V. P., RAKITSKIY, A. N., and TREFILCY, V. I., Moscow, Kiev

"Structure and Eschanical Properties of Chromium Iodide Single Crystals"

Moscow, Izvestiya Akademii Mauk SSSR, Metally, No 1, Jan/Feb 74, pp 143-149

Abstract: The structure and mechanical properties of chromium iedide were studied to determine why chronium is extremely brittle at room and low temperatures. Single crystals of chromium were produced from the thermal dissociation of chromium icdide which had a high degree of perfection (ratio of electrical resistances measured at 300 and 4.2° K was equal to (1.5-3.0)x10². Bend tests of the single crystals showed that the modulus of elasticity for chromium has a minimum value in the <1117 direction which is caused by the plane, being higher than in planes accumulation of dislocations in the [111] [110] . It was also noted that with increased purity of the single crystals from interstitial impurities the specific surface energy \$100} . Therefore, [111] to plane minimum transfers from plane brittle slip in chronium single crystals occurs in these two planes. Six figures, two tables, 32 bibliographic references.

PROCESSING DATE--023CT70 UNCLASSIFIED 019 ABSTRACT/EXTRACT--(U) GP-G- ABSTRACT. THE AUTHORS PRESENT THE ANALYSIS OF THEIR EXPERIENCE WITH 984 OPERATIVE PROCEDURES PERFORMED ON THE MARKET OF THEIR EXPERIENCE WITH 984 OPERATIVE PROCEDURES PERFORMED ON THE MARKET OF THE AUTHORS PRESENT THE ANALYSIS OF THEIR EXPERIENCE WITH 984 OPERATIVE PROCEDURES PERFORMED ON THE MARKET OF THE AUTHORS PRESENT THE ANALYSIS OF THE AUTHORS PRESENT THE AUTHORS PRESENT THE ANALYSIS OF THE AUTHORS PRESENT THE AU CIRC ACCESSION NO--APO102812 AND LARGE VESSELS IN THE HOSPITAL OF THE PYATTGORK CITY. ō9 UNCLASSIFIED

1/2 019

UNCLASSIFIED PROCESSING DATE--020CT70

YITLE--A SUMMARY OF THE RESULTS OF SURGICAL TREATMENT OF THE CARDIAC AND

MAJOR VESSELS IN THE CAUCASUS MINERAL WATERS -UAUTHOR-(05)-TOSHINSKIY, I.I., BOGOYEV, D.N., KUPTSOV, KH.N., FISHOVA,

R:Z., ABANICHEV. N.I.

COUNTRY OF INFO--USSR

SOURCE--VESTNIK KHIRURGII IMENI I. I. GREKOVA, 1970, VOL 104, NR 3, PP 25-32
DATE PUBLISHED----70

SUBJECT AREAS—BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS—SURGERY, CIRCULATORY SYSTEM, HEART, BLOOD VESSEL

CONTROL MARKING--NO RESTRICTIONS

DUCUTE IT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0951

STEP NO--UR/0589/70/104/003/0025/0032

CIRC ACCESSION NO--APO102812
UNCLASSIFIED

USSR

ABAIOMI, B. VE., et al, Zhurnal Obshchey Khimii, Vol 40, No 8, Aug 70, pp 1812-1817

sinous acids. Examination of the products by means of IR and FAR spectroscopy showed that no alkoxy groups are present in these products. It was determined that in the above reactions only the tetraalkyl- and trialkylphenylarsonium salts are formed. To traeethyl arsonium iodide reacted with magnesium perchlorate underwent an exchange reaction yielding tetraethylarsonium perchlorate m.p. 291°.

USSR

LDC 51.7.21.2

ABALONIN. B. YE. CHERUOKALISKIY, B. D., SHAGIDULLIN, R. K., IZOSIMOVA, S. V., ZYKOVA, T. V., KAMAY GILIM (DLOZASED), Kazani Chemical-Technological Institute imeni S. M. Kirov, Kazan, Ministry of Higher and Secondary Specialized Education RSPSR, and Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Academy of Sciences USSR

"The Products of the Reaction of Arsinous Acid Esters With Alkyl Halides"

Loningrad, Zhurnal Obshel Edinii, Vol 40, No 8, Aug 70, pp 1812-1817

Abstract: The reactions were carried out by one of two methods:
a) ethyl chaer of diethylarsinous acid and ethyl iodide were kept
in an ampule under CO2 atmosphere for 120 hours at room temperature,
the precipitated tetraethylarsonium iodide was recrystallized
from an etheralcohol mixture and showed a m.p. of 2910; or b) the
same mixture was heated to 1000 for 2 hours in an ampule under CO2
atmosphere, yielding the same product. By these reactions other
alkyl halides reacted with esters of dialkyl- and phenylalkylar1/2

USSR

UDC 546.26.119

KAMAY, G. Kh. (deceased), ABALONIN, B. Ye., CHERNOKAL SKIY, B. D., IZOSIMOVA, S. V., and SHAGIDULLIN, R. R., Kazan Chemical Technological Institute imeni S. M. Kirov, and Institute of Organic and Physical Chemistry imeni A. Ye. Arbuzov, Acad. Sc. USSR

"Reaction of bis-(Dialkylarsine)-exides With Alkyl Iodides"

Izvestiya VUZ -- Khimiya i Khimicheskaya Tekhnologiya, Vol 14, No 5, 1971, pp 724-727

Abstract: Bis-diethylarsine)-oxide reacts energetically with benzoic and acetic acyl chlorides yielding in the first case a mixed anhydride of diethylarsinous and benzoic acids, the products of the second reaction being inseparable. Reaction of bis-(diethylarsine)-oxide with alkyl halides is more complex: with ethyl iodide a crystalline product is obtained from which a careful workup yields tetracthylarsonium iodide, ethyl ester of diethylarsinous acid and diethyliodoarsenic. Diethyliodoarsenic in turn can react with ethyliodide yielding triethylarsine diiodide. Reactions with methyl iodide are so vigorous that a solvent is recommended. Diphenylarsine oxide, however, even after heating for 2 hrs to 100° was recovered unchanged.

USSR

UNO 543.466.25:546.19

ZYKOVA, T. V., KARLY, GILLM (decembed), CHRESEMBL'SHIT, H. D., SALLMERTDERLY, R. A. and AMALONIA, H. Ye., Kazan Chemical-Technological Institute found S. M. Kirov

"THR Spectra and Structures of Arconius Salts"

Lemingrad, Whursal Outhchey Katalii, Vol 41, No 5, May 1971, pp 1044-1047

Abstract: If the precious amolycia was used to study the nature of alkydate sonder police. The classical and the nature of the nature of the conscious amount and the conscious of the nature of the conscious shifts of the adjusted the conscious of the conscious of the conscious shifts of the adjusted the conscious constitution of the conscious conscious of the conscious conscious of the conscious conscious and the conscious cons

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UDC 546.26'119

CHERNOKAL'SKIY, B. D., ABALONIN, B. Ye., SHAGIDULLIN, R. R., IZOSIMOVA, S. V., and KAMAY, GIL'M, Kazan' Chemical-Technological Institute imeni S. M. Kirov

"Reaction of the Esters of Arsenious Acids with Alkyl Halides"

Leningrad, Zhurnal Obshchey Khimii, Vol XL, No 12, Dec 70, pp 2645-2648

Abstract: It was demonstrated earlier by several of the authors that during the reaction of the esters of arsenious acids with alkyl halides, instead of the expected alkoxyarsonium salts, quaternary arsonium salts are formed; it was of interest to study the effect of the structure of the starting ester on that of the final product.

A series of esters of several arsenious acids were studied for this purpose; these differed with regard to the nature of the hydrocarbon radical of the ester group. It was shown that the hydrocarbon radical of the alkoxy group in no case enters into the composition of the arsenious salt formed.

USSR

IVANOV, R. D., et al., Radiotekhnika i Elektronika, Vol XVI, No 2, February 1971, pp 447-449

the surrounding surface; 2) spots with higher conductivity; and 3) in the presence of a through pore in the dielectric, the upper electrode of the M-D-M system has a dip. The mechanisms of these defects and detection of them are described. Pictures are presented showing the defects, the variation in behavior of spots with high trap concentration as a function of U and charge accumulation in a through pore in the operating mode of the M-D-M system.

USSR

UDC 539.216.2:621.315.61

IVANOV, R. D., ABALMAZOVA, M. G.

"Study of Electrical Inhomogeneities of Film Dielectrics by the Electron Mirror Method,"

Moscow, Radiotekhnika i Elektronika, Vol XVI, No 2, February 1971, pp 447-449.

Abstract: In this article it is demonstrated that studying the inhomogeneities of film dielectrics by the method of electron mirror microscopy permits quality control of the dielectric of a M-D-M film system and also explanation of the characteristic features of operation of film elements and provision for possible change during operation.

In the experiment ${\rm Sb}_2{\rm S}_3$ and ${\rm Ta}_2{\rm O}_5$ films were observed. Even when the dielectric films were obtained by various methods, defects having certain common features were detected on their surfaces. In addition to dirt pits and geometric inhomogeneities (including blind pores) the following defects were detected: 1) spots with lower conductivity than 1/2

2/2 009 UNCLASSIFIED PROCESSING DATE-- 13NOV70 CIRC ACCESSION NO--APO109443 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THIS ANALYSIS INCLUDES 132 FAMILIES, IN 94 FAMILIES (200 SUBJECTS) SCOLIOSIS WAS OBSERVED IN 2 AND MORE PERSONS, IN 38 FAMILIES THE RELATIVES OF SCOLIOTIC PATIENTS SUFFERED FROM ENURESIS, 35 SCOILOTIC PATIENTS ALSO HAD ENURESIS. PATIENTS WITH SCOLIOSIS WERE DIVIDED INTO 3 GROUPS: SCOLIOSIS IN HOMO AND HETEROZYGOUS TWINS, SCOLIOSIS IN PARENTS AND CHILDREN, SCOLIOSIS IN TWO CHILDREN FROM ONE FAMILY. OF 8 PAIRS OF TWINS, 7 PAIRS WERE HOMOZYGOUS. AMONG 8 PAIRS, THERE WERE 6 PAIRS OF SISTERS, BROTHER AND SISTER IN ONE PAIR, AND BROTHERS IN ANOTHER. SCOLIOSIS IN TWINS WAS ALWAYS CCNCORDANT, BUT IN ONE OF THEM ALWAYS MORE SEVERE THAN IN THE BY THE CHARACTER AND SEVERITY, SCOLIOSIS IN THE DAUGHTER WAS IDENTICAL TO THAT OF THE MOTHER, WHILE IN THE SON IT WAS ALWAYS LESS MARKED. SCOLIOSIS IN THE SON BY THE CHARACTER AND SEVERITY WAS IDENTICAL TO THAT OF THE FATHER, WHILE IN THE DAUGHTER IT WAS ALWAYS MORE SEVERE. SCOLIOSIS OF VARIOUS SEVERITY WAS A RULE IN THE GROUP WHERE IT WAS PRESENT IN TWO CHILDREN OF THE SAME FAMILY. AMONG ALL SCOLIOSIS. THE SCOLIUSES IN PARENTS AND CHILDREN CONSTITUTED THE LARGEST GROUP AND, MOREOVER, THE INCIDENCE OF SCOLIUSIS IN THE MOTHER AND CHILDREN WAS 3 TIMES HIGHER THAN IN THE FATHER AND CHILDREN. GROUPS SCOLIOSIS WAS MURE FREQUENTLY OBSERVED IN THE FEMALES, BUT IN THE GROUP WITH SCOLIOSIS IN THE MOTHER AND CHILDREN, THE PREVALENCE OF FEMALES WAS ESPECIALLY MARKED. THE AUTHORS BELIEVE MYCLODYSPLASIA AND THE DYSRAPHIC STATUS TO BE THE MOST FREQUENT CAUSE OF SCOLIOSIS DEVELOPMENT. FACILITY: TSENTRAL*NOGO INSTITUTA TRAVMATOLOGII | ORTOPEDII.

1/2 009 UNCLASSIFIED TITLE—FAMILIAL FORMS OF SCOLIOSIS -U-

PROCESSING DATE--13NOV70

AUTHOR-(04)-ABALMASOVA, YE.A., KOGAN, A.V., NIKITINA, M.P., KHADZHAYEV, R.R.

COUNTRY OF INFO--USSR

SCURCE--ORTUPEDIYA, TRAVMATOLOGIYA I PROTEZIROVANIYE, 1970, NR 4, PP 22-26 CATE PUBLISHED-----70

SUBJECT AREAS--BIGLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-MUSCULOSKELETAL DISEASE, HEREDITARY DISEASE, HUMAN GENETICS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1990/1362

STEP NO--UR/9115/70/000/004/0022/0026

CIRC ACCESSION NO--APO109443

USSR

UDC 621.382.002

KOROBOV, A.I., ABALMAZOVA, M.G., KARASEV, V.I., NAUMOHENKO, A.S., REFIN, V.A.

"Methods Of Control Of The Imperfections Of The Film Structures Metal-" Dielectric-Metal"

Elektron. tekhnika. Nauch.-tekhn.sb.Upr.kachestvom i standartiz. (Electronics Technology. Scientific-Rechnical Collection. Control Of quality And Standardization), 1971, No 4(10), pp 12-19 (from REh:Elektronika i yeye primeneniye, No 1, Jan 72, Abstract No 18515)

Translation: Methods are considered for control of imperfections of the thin-film structure metal-dielectric-metal: electrochemical coloration of the channels of high conductivity in the dielectric film, observation of local charges on the surface of the film with the aid of a mirror electron microscope, measurement of the dependence of the number of partial breakdowns on the magnitude of the applied voltage, and also the frequency dependence 0 and tg 0 of capacitors in the low-frequency (40-5000 Hz) region, and measurement of the residual polarization. The characteristics are presented of the degree of imperfection of a number of structures which are used in thin-film microcircuits. The qualitative agreement is shown of the evaluation of the imperfection of those structures by various methods. Summary.

- 62 -

ABLIKOV, Viktor Aleksandrovich This exists the control of the contr The descript of the street of the street colline and street of the street of the street colline and street of the Another conductor delives from the graphs take of cutting the super many attains, under the super from a stains, under the super from the stains. . We then size without the contration of the size of the $\delta \lambda_{\rm c}$ of the size of the s not have a decrease in the root in a lift for the sections of the section of the ;

USSR

UDC: 669.2818491788

FREZE, N. I., SHCHUKIN, A. A., ABALIKHIN, A. V., MAL'TSEV, M. V., MIL'MAR, Yu. V., KURDYULOVA, G. G.

"All-Union Scientific Research and Design Institute of Refractory Metals and Hard Alleys"

"A Molybdenum-Based Alloy"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 12, Apr 72, Author's Certificate No 334279, Division C, filed 28 Sep 70, published 30 Mar 72, p 104

Translation: This Author's Certificate introduces a molybdenum-based alloy which contains rhenium. As a distinguishing feature of the patent, the physicomechanical properties of the alloy are improved by adding carbon, taking the components in the following proportions in percent:

rhenium 35-50 carbon 0.02-0.2 molybdenum base

USSR

UDC: 661.143

ABALDUYEV, B. V.

"Some Peculiarities of Low-voltage Cathode Luminophors"

Elektron. tekhnika. Nauch.-tekhn. sb. Elektrovakuum. i Gazorazryad. Pribory [Electronic Equipment, Scientific and Technical Collection of Electric Vacuum and Gas-discharge Instruments], No 1, 1972, pp 12-15 (Translated from Referativnyy Zhurnal Khimiya, No 24(II), 1972, Abstract No 24L135, from the Resume)

Translation:: The specific features of low-voltage cathode luminescent materials (CLM) result from the small depth of penetration of bombarding electrons. The most important of the requirements for low voltage CLM are low width of the forbidden zone, high conductivity, low starting potential of luminescence. With a current density of 1 ma/cm² and voltage across the CLM of 20v, the maximum possible brightness is 1600 n. To assure impractice good brightness of 200 n, an energy yield of 3-6% is required. This work contains estimates of the prospects for certain classes of luminophors.

PROCESSING DATE--04DEC70 UNCLASSIFIED 025 2/2 CIRC ACCESSION NO--APO139608 ABSTRACT. EFFECT OF TOTAL X TRRADN. (DOSE ABSTRACT/EXTRACT--(U) GP-0-NOT GIVEN) AND CAFFEINE ON THE URINARY EXCRETION OF EXUGENOUS 3 PRIME, 5 PRIME, AMP PRIME32 P (I), 5 PRIME (I), 5 PRIME AMP PRIME32 P (II), AND 3 PRIME, 5 PRIME AMP PRIMES H (III) HAS BEEN STUDIED IN RATS. AN INCREASED RADIDACTIVITY EXCRETION FOLLOWING THE ADMINISTRATION OF I AND III. AND A DECREASED RADIOACTIVITY EXCRETION FOLLOWING THE ADMINISTRATION OF II WAS OBSD. IN IRRADIATED ANIMALS AS WELL AS IN ANIMALS GIVE CAFFEINE. A PORTION OF EXOGENOUS I AND IT WAS EXCRETED IN QUANT. AND QUAL. DIFFERENCES WERE NOTED IN THE UNCHANGED FORM: EXCRETION OF RADIOACTIVITY AFTER THE ADMINISTRATION OF LABELED NUCLEDTIDES AND NA USB2 H PRIME32 PO SUB4. FACILITY: ISENT. INST. USOVERSH. VARACH., MOSCOW, USSR.

UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--EFFECT OF TOTAL X RAY IRRADIATION AND CAFFEINE ON THE EXCRETION OF
EXOGENOUS 3 PRIME, 5 PRIME AMP PRIME32 P, 5 PRIME AMP PRIME32 P, AND 3
AUTHOR-(03)-FEDOROV, N.A., ABAKUMOVA, O.YU., KOTOV, N.N.

COUNTRY OF INFO--USSR

SOURCE--RADIOBIOLOGIYA 1970, 10(2), 307

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--X RAY RADIATION BIOLOGIC EFFECT, URINE, RAT, NUCLEOTIDE, CENTRAL NERVOUS SYSTEM STIMULANT, PHOSPHORUS ISOTOPE

CONTROL MARKING--NO RESTRICTIONS

CIRC ACCESSION NO--APO139608
UNCLASSIFIED

RDP86-00513R002065900049-6

ABAKUMOVA

6.5.

Acc. Nr: AA0040503 Abstracting Service: CHEMICAL ABST. 4/70

Ref. Code: UR 0482

Korolev, A. L.; Makeeya, E. D.; Levchenko, J. N.; Abakumova, C. S.; Libovskaya, N. I. U.S.S.R. 253,981 (Cl. C. 10m), 07 Oct 1969, Appl. 27 Jul 1968; From Otherstiya, Isobret., Prom. Obraztsy, Towarnye Znaki 1969, 46(31), 65. The title greases are thickened with silica gel. To make sure of the conducting properties of the lubricant, poly(oxyalkylene) glycol liq. is used a dispersion medium. To remove and break up the oxide films of metals, 0.1-10% polyhydric phenol is added to the lubricant, which consists of 5-15% silica gel and 95-85% poly(oxyalkylene) glycol liq. MSCL

ALS

REEL/FRAME 19750003

SE: 06/23/11: CIA-RDP86-00513R002065900049-6

KUMLEVA, L. A., HIKOLAYEVA, H. M., KOROLEV, A. L., MAZEYEVA, Ye. D., LEVCHENHO, D. H., ABAKUMOVA, G. S., LIPOVSKAYA, H. I.

"Lubricating Grease"

USSR Author's Certificate No 253961, Filed 27 Jul 68, Published 26 Feb 76 (from RZh-Radiotekhnika, No 10, Oct 70, Abstract No 10V295 P)

Translation: The authors propose a lubricating grease based on a dispersion measure thickened with silica gel, to which liquid polyoxyalkyleneglycol is added as the alspersion medium. In order to loosen and remove oxide films from metals, polyatomic phenol is added to the lubricant in quantities of 0.1-10%, silica gel is used in quantities of 5-15%, and liquid polyoxyalkyleneglycol -- 95-85%.

UNCLASSIFIED

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE INTERDEPENDENCE OF THE
TRANSMITTANCE TAU OF THE EARTH'S ATM. ON THE MASS OF THE ABSORBING
SUBSTANCE CHI IN THE PATH OF THE LIGHT BEAM MAY BE EXPRESSED BY THE
ORTHOGONAL SERIES OF THE EXPONENTIAL FUNCTIONS IN FORM: (EQUATION
SHOWN ON MICROFICH). THE METHOD OF CALCN. OF THE COEFFS. C SUBKM AND
ALPHA SUBK ARE GIVEN. THE METHOD IS EXEMPLIFIED ON THE SPECTRAL

PROCESSING DATE--160CT70

ABSORPTION OF THE IR RADIATION BY H SUB2 O IN THE 6.3-MU BAND. THE MEAN SQUARE DEVIATION IS 0.009 AND 0.007 FOR O SMALLER THAN X SMALLER THAN 1 AND O SMALLER THAN X SMALLER THAN 25, RESP. FACILITY: MUSK.

GOS. UNIV., MOSCOW, USSR.

2/2

037

1/2 037 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--APPROXIMATION OF THE TRANSMISSION COEFFICIENT BY MEANS OF
COMBINATIONS OF EXPONENTIAL FUNCTIONS -UAUTHOR-(02)-DMITRIYEV, A.A., ABAKUMOVA, G.M.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, FIZ. ATMOS. OKEANA 1970, 6(1), 102-3

DATE PUBLISHED---- 70

SUBJECT AREAS--ATMOSPHERIC SCIENCES, NAVIGATION

TOPIC TAGS--IR RADIATION, SPECTRAL ABSORPTIVITY, FUNCTION, ATMOSPHERE, WATER, ATMOSPHERIC WATER VAPOR

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1991/0749

STEP NO--UR/0362/70/006/001/0102/0103

CIRC ACCESSION NO--AP0110473

USSR

GOLENKO, D. I., ABAKUMOV, V. I.

"One Problem of Distribution of Resources in a Multilevel System of Control of Reserves"

Tr. Mosk. Ekon.-stat. In-ta [Works of Moscow Institute of Economics and Statistics], No 4, Part 1, 1971, pp 49-65, (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V456).

NO ABSTRACT.

PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 010 CIRC ACCESSION NO--APO118063 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE HITHERTO USED LENGTHS OF THE PREHEAT, FIRING, AND COOLING ZONES OF TUNNEL KILNS FOR FIRING MAGNESITY PRODUCTS ARE NOT OPTIMUM. IMPROVEMENT OF THE EFFICIENCY OF FURNACES IS POSSIBLE BY CHANGING LENGTHS OF ZONES. THE PREHEAT ZONE CAN BE SHORTENED BECAUSE ONE CAN ACCELERATE THE HEATING OF THE MAGNESITE PRODUCTS IN THIS ZONE DEPENDING ON THE HEAT TRANSFER AND PRODUCT ON SHORTENING THE PREHEATING ZONE, THE COULING ZUNE CHARGING RATES. FACILITY: VSES. INST. OGNEUPOR., LENINGRAD, CAN BE EXTENDED. USSR.

1/2 010 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--CORRELATION OF THE LENGTHS OF THE ZONES OF HIGH TEMPERATURE TUNNEL

AUTHOR-(03)-SHUMILIN, A.A., ABBAKUMOV. J. G., TARAKANCHIKOV, G.A.

COUNTRY OF INFO--USSR

SOURCE--OGNEUPORY 1970, 35(3), 8-15

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--INDUSTRIAL FURNACE, REFRACTORY MATERIAL

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1996/0894

STEP NU--UR/0131/70/035/003/0008/0015

CIRC ACCESSION NO--APOL18063
UNCLASSIFIED

USSR



SHUMILIN, A. A., ABBAKUMOV, V. G., TARAKANCHINOV, C. ...

"The Problem of the Relationship of Zone Lengths in a lightemperature Tunnel Furnace"

Moscow. Ogneupory, No 3, Mar 70, pp 8-15

Abstract: The relationship of heating, roasting, and cooling zone lengths in existing high-temperature tunnel fundeds for roasting of magnesium products is not optimal. This endates reserves for the improvement of the operation of the number, by optimization of the relationship of zone lengths. The houting zone in a high-temperature tunnel furnace generally ecupledes the heat exchange process and then includes some additional length. This zone can be shortened without any damage to the operation of the furnace, allowing an increase in the cooling zone length.

USSR

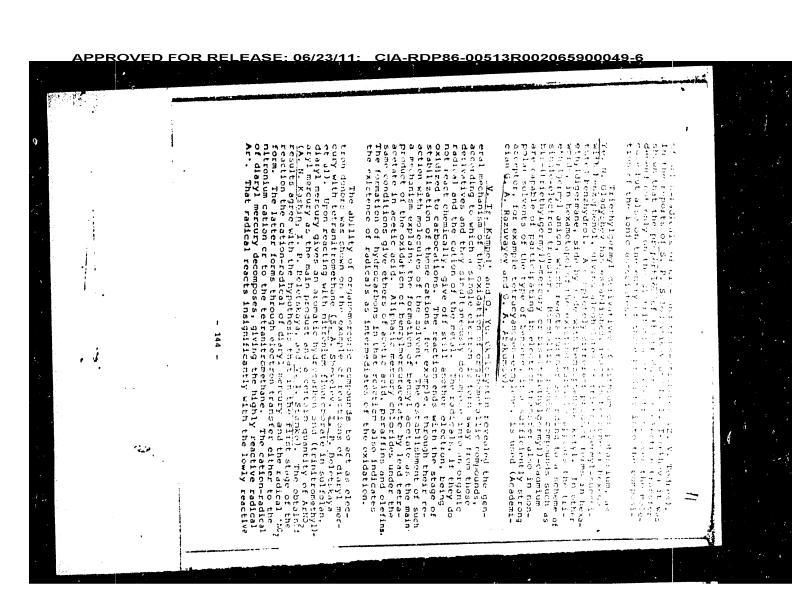
UDC 681.327

ABAKUMOV, V. G., and NESIN, S. P.

"Automatic Accumulators in Devices for Processing Experimental Data"

Avtomatiz. Proyektir. v Elektronike. Resp. Mezhved. Nauchno-Tekhn. Sb. [Automation of Planning in Electronics, Republic Interdepartmental Scientific and Technical Collection], No 1, 1970, pp 98-100 (Translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 5, 1971, Abstract No 5B 349 by T. D.)

Translation: This concerns a study of the problem of the use of magnetic tape storage units for recording of experimental data. It is shown that it is expedient to design accumulators so that they are compatible with computer magnetic tape drives. Requirements which must be satisfied by recording documents in order to provide compatibility are studied. The tape transport rate during recording may vary; measures should be taken to assure that the longitudinal recording density does not exceed the nominal value for the magnetic tape accumulator of the computer in question. The construction of compatible recorders allows the time required to input data to the computer to be greatly reduced and significantly simplies the input procedure.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R002065900049-6 10170111 CHEMICIN ABAKUMOV, G.A TKINT Anowar to organic chamistry of the past. The preperties of these shrower to organic chamistry of the past. The preperties of these shrower examined in a number of ports. Homoglobin, cytogive nonequilibrium forms in which the iron has alredy gone over into the state Fe(II) but the protein fact still relating its 4-41-dimitro-cis-stilbene into an anich-radical transfer of the molecule leads to establishment of equilibrium 4-nitro-cis-stilbene in the protein for equilibrium 4-nitro-cis-stilbene in the presence of electron transfer gives a mixture cis-stilbene in the presence of electron transfer gives a mixture Chemical reactions are usually regarded as the funture form of a molecule. It is now considered, however, that the skele-flacement of atoms or atomic arrangements is preceded by the transfer of electrons from one of the reaction molecules to the other. The study of that stage, which has become possible through the use of new instrumental methods of investigation, especially of electron paramagnetic and nuclear magnetic resonance, expands concepts of the reaction mechanism as a sequence of elementary stages known to us. er behavi; about 40 reports vero presentation Center of the High-conference vero the leading chaptes in thicket. Entirely of the in the and the republican academics, and also Rostov-ha-Don, Maccow. A conference on the role of a organized by the Horthorn Caucacus 5 or School; about 40 reports yero practically [Article by Candidate of Chemical Sciences J. V. Tourch Momonw. Ventniy Akademii Hauk SNSH. Bussian, No 9. September 1973, pp. 107-107. (Conference in Rostov-on-Don) SINGLE-ELECTRON TRANSFER AND CHEMICAL TRANSFORMATIONS - 143 -Scientific Conter JERS 60661, 30 nov. 73 on transfers in chemi-LO RIVERS

UNCLASSIFIED

PROCESSING DATE--300CT70

2/2 049 CIRC ACCESSION NO--APOL16703 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE SPECTRA OF TRIPLET TRIPLET (T-T) ABSORPTION OF PH SUB2 CO AND NAPHTHALENE IN BENZENE SOLN. WERE MEASURED AT ROOM TEMP. BY USING A RUBY LISER 2ND HARMONICS RADIATION · (LAMBDA EQUALS 347 NM; POWER 0.3-0.5 MW, AND PULSE DURATION SIMILAR TO 30 NSEC) AS THE EXCITATION SOURCE. THE 2ND HARMONICS WAS DETAINED WITH A KH SUB2 PO SUB4 SINGLE CRYSTAL (25 MM LONG). SOLNS. OF FLUGRESCEIN IN HOAC WATER MIXT. AND OF PHENYLACRIDONE IN ETOH WERE USED AS SOURCES OF VISIBLE REGION RADIATION. THE PUSITIONS OF MAX. IN PH SUB2 CO AND NAPHTHALENE AT 350 AND 420 NM, RESP., IN THE T-T SPECTRUM, ARE IN GOOD AGREEMENT WITH LITERATURE DATA. THE ADVANTAGES OF THE USE OF LASER

RADIATION FOR THE EXCITATION OF ORG. MOLS. IN SULNS. ARE DISCUSSED.

UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--MEASUREMENT OF TRIPLET TRIPLET ABSORPTION SPECTRA OF MOLECULES OF

ORGANIC COMPOUNDS IN LIQUID SOLUTIONS BY USING A LASER -U
AUTHOR-(04)-TSURIKOV, YU.L., ABAKUMOV, G.A., TRUSHANOV, A.A., SIMONOV,

A.P.

COUNTRY OF INFO--USSR

SOURCE-ZH. PRIKL. SPEKTROSK. 1970, 12(2), 336-8

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY, PHYSICS

TOPIC TAGS--ABSORPTION SPECTRUM, NAPHTHALENE, RUBY LASER, AROMATIC KETONE, BENZENE, PULSE EXCITATION, LASER RADIATION, SECOND HARMONIC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1995/1241

STEP NO--UR/0368/70/012/002/0336/0338

CIRC ACCESSION NO--APOLI6703

UNCLASSIFIED

USSR

YANAYT, Yu. A., ABAKUMOV. G. A., KROMSKIY, G. I., SIMONOV. A. P., FADEYEV, V. V., and KHOKHIOV, R. V., Moscow State University imeni M. V. Lomonosov and The Physico-Chemical Institute imeni L. Ya. Karpov

"Generation in the Ultraviolet Band With Frequency Tuning in a Paraterphenyl Solution Excited by a Flash Bulb"

Moscow, Pis'ma v Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Yol 13, No 11, 5 Jun 71, pp 616-619

Abstract: This article discusses generation with fine tuning in the wavelength of 330-350 nm in a paraterphenyl solution excited by a flash bulb. One of the real problems in quantum electronics is the design of a frequency-tunable laser in the ultraviolet band of the spectrum. The authors show the broad possibilities here of using organic compounds as the active media especially paraterphenyl, which is found to be the best compound for producing tunable lasers in the ultraviolet band pumped by flash bulbs. The experimental procedures are discussed and the results are given in the form of an oscillogram and a table, which gives the threshold values and the limits of frequency tuning. The low values of the threshold energies for exciting the solutions shown in this table indicate that this pumping system is also effective for exciting a large number of other organic compounds. I figure, I table, bibliography of 3 titles.

USSR

UDC 669.017.1:539.56.001.5

ZIKEYEV, V. N., SKOTNIKOV, V. V., GULYAYEV, A. P., ABAKOV, V. T., and YELIZAROV, B. I.

"Study of Properties of Types 18KhNMFA and 18KhN1MFA Commercially Produced Experimental Steels"

Spetsial'nyye Stali i Splavy [Special Steels and Alloys--Collection of Works], No 77, Metallurgiya Press, 1970, pp 207-214

Translation: It is demonstrated that the production, rolling and heat treatment of types 18KhNMFA and 18KhN1MFA steels under industrial conditions cause no difficulties.

The experimental steels are superior in mechanical properties to type 15KhGNTA steel, used for important parts of motor vehicle engines. They have high brittle rupture resistance and hardenability. 2 figures; 3 tables.

06/23/11: CIA-RDP86-00513R002065900049-6

USSR

ASOYAN, L. M., USSR Authors' Certificate No 249762, Filed 2 April 1968, Published 15 January 1970 (Translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 10, 1970, Abstract No 123P, by L. Sh.)

of the first flip-flop of the next digit. The ones outputs of the low-order digit flip-flop and the second flip-flops of the next digits are used as outputs corresponding to binary code. The circuit suggested combines the functions of a Barker code to parallel binary code converter with the functions of memorization of the binary code. One illustration.

UDC: 681.332.65

ASOYAN, L. M., BELKIN G. G., GRIGORYAN, R. Kh., KARANYAN, K. Kh., ABADZHYAN, S. S., GEVORKYAN, S. G.

Parallel Barker Code to Parallel Binary Code Converter"

USSR Authors' Certificate No 249762, Filed 2 April 1968, Published 15 January 1970 (Translated from Referativnyy Zhurnal Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 10, 1970, Abstract No 123P, by L. Sh.)

Translation: The converter suggested contains a register, each digit of which with the exception of the low-order digit, is made of two flip-flops connected with buses corresponding to the subdigits of Barker code and logic circuits. With buses corresponding to the subdigits of Barker code and logic circuits. With ones and zeros outputs of the flip-flops of each digit are connected to two pairs of AND circuits respectively. The outputs of the AND circuits of each pair are connected through an OR circuit and delay line to the inputs of the second flip-flop of the same digit. The output of the OR circuit connected to the ones output of the triggers of the digit in question is connected also to the AND circuits connected to the outputs of the second flip-flop of the next digit. The output of the OR circuit connected to the zero outputs of the flip-flops is connected to the AND circuit which is connected to the outputs 1/2

USSR

UDC 627.0.825,001.57

ABADZHYAN, K. A.

"Study of Abutment Configurations of Arch Dams"

Energ. str-vo -- V sb (Power Engineering Construction -- Collection of Works), No 10 (112), Moscow, 1970, pp 84-86 (from RZh-Elektrotekhnika i Faergetika, No 2, Feb 71, Abstract No 2 D215)

Translation: This article contains the results of model research of the carrying capacity of the "arch-foundation" system with abutments of different configurations. Recommendations are made for selecting the configurations of arch dam abutnents. There are 2 illustrations, 2 tables and a 2-entry bibliography.

USSR

UDC: 621.374.5(088.8)

ABADULLINA, M. G., ORLOV, V. H., SOKOLINSKIY, A. G.

"A Variable Ultrasonic Delay Line"

USSR Author's Certificate No 266830, filed 11 Nov 68, published 2 Jul 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 16240 P)

Translation: The proposed variable delay line contains an acoustic line in the form of plates of a piezoelectric material and two electrodes, one of which is fixed while the other slides over the surface of a plate. To obtain continuous delay control, the movable electrode is made in the form of two strips of thickness $\lambda/3$ (where λ is the Rayleigh wavelength) displaced with respect to one another by a distance $\lambda/2$, and separated by an insulating gasket of thickness $\lambda/6$.

ABACHARAYEV, M. M., et al, Vestnik Mashionostroyeniya, No 12, Dec 71, pp 22-23 dening. The highest cavitation resistance of pig iron was attained by its saturation in the powder mixture Khiltsl at 1050 °C duning 8 hrs. Generally, the chromium-mangenese diffusion plating ring 8 hrs. Generally, the chromium-mangenese diffusion danis a more reliable protection of pig iron against corrosion danis a more reliable protection of pig iron against corrosion danish the clost polytic chrome plating the pigets. mage than the electrolytic chrome plating. Two illustres, one table, three biblio. refs.

USSR

UDG 621.436.2-222-232.174. .002.3:669.15'26'74.196

ABACHARAYAV Candidate of Technical Sciences, and VOROSHNIN, L. G., Candidate of Technical Sciences, Associate

"Protection of Cylinder Bushings of Diesel Engines Against Professor Cavitation Damages by Chromium-Langanese Diffusion Flating"

Moscow, Vestnik Mashinostroyeniya, No 12, Dec 71, pp 22-23

Abstract: The use of chromium-manganese diffusion plating for protection against cavitation erosion of cylinder bushings was investigated on specimens, 25 mm in diam., 5 mm high, cut out from a rod of big iron 30h28-48, and on natural bushings of diesel engines Ch8.5/11. The microstructural analysis of the diffusion layer showed two structural zones: a corrogion resistant graphite-free carbide some of high hardness (H 100 1210-1500) directly on the surface and a zone of manganous questenite (H 100 650-700), graphite-free, highly inclined to strain har-

USSR

UDC 669.28.017

ABABKOV, Y. T., GINZBURG, V. I., and VOLKOV, YU. K.

"Corrosion Resistance of Molybdenum Alloys in Certain Corrosive Media"

Spetsial'nyye Stali i Splavy (Special Steels and Alloys -- Collection of Works), No 77, Metallurgiya Press, 1970, pp 72-76

Translation: It is demonstrated that domestically produced molybdenum alloys have high corrosion resistance in inorganic acids, iodide media, and certain special media. They are superior to nickel alloys such as hastelloy and certain refractory metals in this respect. 6 tables; 4 biblio. refs.

USSR

vpc 539.385

SHABALIN, V. I., ABABKOV, G. V., YEVSEYEV, V. V., and TOMANOVA, R. A.

"Investigation of the Laws Governing the Fatigue Failure of Aviation Alloys"

Sb. Nauch. Tr. Kiyev. In-t Inzh. Crazhd. Aviatsii (Collectinn of Works of the Kiev Institute of Civil Aviation Engineers), No 4, 1971, pp 57-61 (from Referativnyy Zhurnal, Mekhanika, No 2, Feb 72, Abstract No 2V1360 by L. M. Shkol'nik)

Translation: A study was made of the influence of the width and length of the working part of a sample upon the rate of growth of fatigue cracks, as well as of scattering of the test results with respect to the moment of appearance of the first macroscopic cracks and the moment of total failure of the sample. The tests were conducted on flat samples of aluminum alloys D16T and V95 with a central aperture, for repeated cyclical elongation with a frequency of 435 a central aperture. It was established that the length of the samples does not cycles per minute. It was established that the length of the samples does not affect their longevity and rate of crack growth. With a width increase of the samples and a length increase of the crack, the growth rate of the cracks increases. Increasing the width of the samples also brings about a decrease of the fatigue-failure stage and of the relative crack length at the moment of failure. With an increase of sample width, the coefficient of stress concenfailure. With an increase of sample width, the greatest scattering is tration at the end of a fatigue crack increases. The greatest scattering is

Acc. Nr: APO046652 Abstracting Service Ref. Code: INTERNAT. AEROSPACE ABST 5-70 UR 3663

A70-25290 # Study of the rate of propagation of fatigue cracks (Issledovanie skorosti rasprostraneniia treshchin ustalosti). V. I. Shabalin and G. V. Ababkov, Problemy Prochnosti, vol. 2, Feb. 1970, p. 11-17, 10 rets. In Russian.

Results of a study of the rate of crack growth and of the relation between this stage of fatigue and the overall lifetime of specimens made of D16AT sheet alloy with holes as stress concentrators. It is shown that the rate of propagation of a fatigue crack must be related not to the length-of the crack, but to the duration of the various phases of its development. It is necessary to establish a safe period of fatigue crack growth as a function of the material, the stress level, and the test conditions.

A.B.K.

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REEL/FRAME 19781965 18

UDC 632.95

AAVIK, KH. E., HABUR, A. V., KALLASORG, R. A., REVEL'SKIY, 1. A.

"Study and Development of the Method of Microcoulometric Detection of Halogen and Sulfur Containing Compounds"

Tr. 2-go Vses. soveshch, po issled. ostatkov pestitsidov profilakt. zagrvazneniya ini produktov pitaniya, kormov i vnesh. sredy (Morks of the Second All-Union Conference on the Investigation of Pesticide Residues and Preventive Contamination of Food Products, Feeds and Environment), Tallin, 1971, pp 16-22 (from RZn-Khimiya, No 12, Jun 72 Abstract No 12:1421)

Translation: The conditions of 100% conversion of C1 and S-containing conpounds in a gas flow into HCl and H₂S are found, and a titration cell is developed which permits detection (by chlorine) of ~10⁻⁹ grams of substance.

The coloctivity coefficient with respect to independent of the coloctivity of the coloctivity of the coloctivity coefficient with respect to independent of the coloctivity The selectivity coefficient with respect to hydrocarbons is ~105.

UDC 632.95

USSR

KH. E., KALLASORG, R. A., REVEL'SKIY, I. A.

"Study of the Conditions Required for Microcoplometric Analysis of Phosphorus

Tr. 2-go Vses. soveshch. po issled. ostatkov postitsidov profilakt. za rvaz-Containing Compounds" neniya imi produktov pitaniya, kormov i vnesh. sredy (Morks of the Second All-Union Conference on the Investigation of Pesticide Residues and Preventive Contamination of Food Products, Fodder and Environment), Tallin, 1971, pp 23-27 (from RZh-Khimiya, No 12, Jun 72, Abstract No 12N423)

Translation: In analyzing organophosphorus compounds in a gas flow by means of a microcoulometric detector, a quartz tube (280 x 2 rm) at 950° and a tiof a microconfometric detector, a quartz case (200 $^{\circ}$ 2 nm) at 950 and a tintration cell with 35% AcOH are used. The degree of detection of the organophosphorus compounds is 70%, and the sensitivity is 5 x 10 grams.